SONY

3-864-441-11(2)

Remote Commander

Operating Instructions

RM-LJ301

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Precautions

On safety

Should any solid object or liquid fall into the cabinet, unplug the receiver and have it checked by qualified personnel before operating it any further.

On operation

Before connecting other components, be sure to turn off and unplug the receiver.

On cleaning

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

If you have any question or problem concerning your receiver, please consult your nearest Sony dealer.

About This Manual

The instructions in this manual are for model RM-LJ301. Check your model number by looking at the lower left corner of the front side.

Conventions

The following icon is used in this manual:

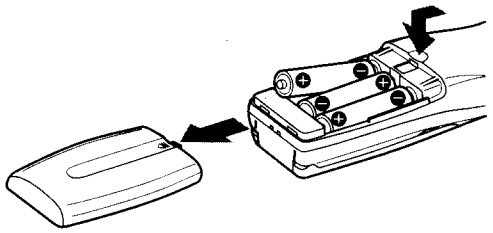
Indicates hints and tips for making the task easier.

Before You Use Your Remote

Check that you received the following item with the remote:
LR6 (size-AA) alkaline batteries (3)

Inserting batteries into the remote

Insert three LR6 (size-AA) alkaline batteries with the + and – properly oriented in the battery compartment. When using the remote, point it at the remote sensor ■ on the receiver.



When to replace batteries

Under normal conditions, the batteries should last for about 3 months. When the remote no longer operates the receiver, replace all the batteries with new ones.

Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with old ones.
- Do not mix the alkaline batteries and other kinds of batteries. This remote is designed for use with the alkaline batteries only.
- Do not expose the remote sensor of the receiver to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Setting up the remote

At the time of shipping, the remote has not been customized to your receiver yet. Before you use the remote for the first time, do the procedure below to set up the remote so that it can control your receiver properly.

1 Press I/⏻ on the receiver to turn it on.

2 Point the remote towards the receiver and press SOUND FIELD, FUNCTION, or SUB.

and appear in the display window of the remote while it communicates with the receiver and identifies the receiver model.
When the communication ends, the remote is customized and provides the operation lists that match your receiver.

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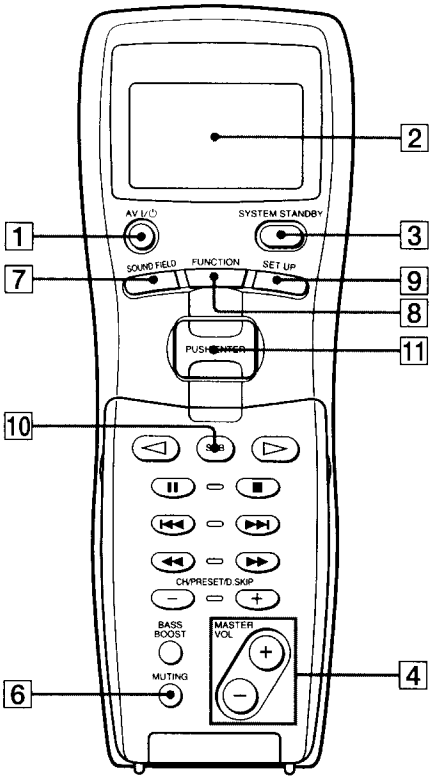
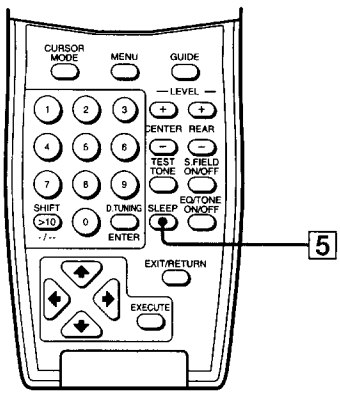
Location of Parts and Basic Remote Operations

This chapter provides information on the location of buttons and how to use them to perform basic operations.

Parts Description



Open up the cover.



1 AV I/⏻ switch
Press to turn on or off the components that the remote is programmed to operate. For details on programming procedure, see"Programming the Remote" on page 15.

2 Display window
The current status of the selected component or a list of selectable items appears here.

3 SYSTEM STANDBY switch
Press to turn off the receiver and other Sony audio/video components at the same time. If you want to change the function of the SYSTEM STANDBY switch so that it turns on or off the receiver only, see page 16.

Note
Before you turn on the receiver, make sure that you have turned the MASTER VOLUME control on the receiver to the leftmost position to avoid damaging your speakers.

4 MASTER VOL +/– buttons
Press to adjust the volume level of all speakers at the same time.

5 SLEEP button
Press repeatedly to activate the sleep function and select the duration after which the receiver turns off automatically.

6 MUTING button
Press to mute the sound. The MUTING indicator on the receiver lights up when the sound is muted.

7 SOUND FIELD button
Press to display the sound field list. Press again to revert back to the component information.

8 FUNCTION button
Press to display the function (component) list. Press again to revert back to the component information.

See the table on page 9 for information on the buttons you can use to control each component.

If you want to change the contents of a function list to match your particular components, do the procedure "Programming the Remote" on page 15.

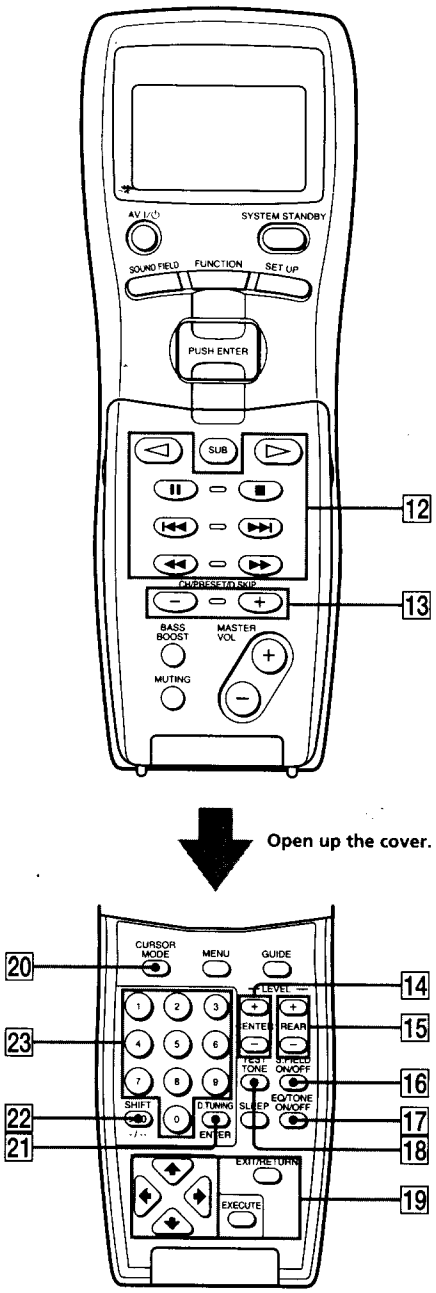
Note
After you have selected the VCR or DVD player, turn on the TV and set the TV's video input to match the component you selected.

9 SET UP button
Press to display the set up list. Press again to revert back to the component information.

10 SUB button
While operating a component, press to display a list of operations that the corresponding buttons are not found on the remote. Then move the easy scroll key to select the operation, and then press the key to enter the selection. Press again to revert back to the component information.

See the table on pages 10 and 11 for information on the operations that appear when you press the SUB button.

11 Easy scroll key
While displaying a list, move up or down to select an item from the list, and then press to enter the selection.



12 Tape/disc operation buttons

The following table shows what components are operated by each button and the function of the buttons.

Button(s)	Component(s)	Function
▷	VCR, DVD player, LD player, video CD player, tape deck, MD deck, CD player, DAT deck	Starts play of the playback medium
◁	Tape deck	Starts play on the reverse side of the cassette
II	VCR, DVD player, LD player, video CD player, tape deck, MD deck, CD player, DAT deck	Pauses play or recording or starts recording when the component is in recording standby
■	VCR, DVD player, LD player, video CD player, tape deck, MD deck, CD player, DAT deck	Stops play
⏮ / ⏭	VCR, DVD player, LD player, video CD player, tape deck (deck B only), MD deck, CD player, DAT deck	Skips tracks
◀◀ / ▶▶	VCR, LD player, tape deck, MD deck, DAT deck	Fastwinds or rewinds
	DVD player, LD player, video CD player, CD player	Searches tracks in the forward or backward direction

See the table on page 9 for information on the buttons that you can use to control each component.

13 CH/PRESET/D.SKIP +/– buttons

Press repeatedly to select a preset station, channel, track, or a disc.

14 LEVEL CENTER +/– buttons

Press to adjust the volume level of the center speaker.

15 LEVEL REAR +/– buttons

Press to adjust the volume level of the rear speakers.

16 S.FIELD ON/OFF button
Press to turn the sound field on or off.

17 EQ/TONE ON/OFF button
Press to turn the equalizer or tone effect on or off. The TONE indicator on the receiver lights up when the effect is turned on.
Note that if you have adjusted the equalization or tone using the CURSOR MODE button and cursor buttons, the adjusted equalization or tone will be produced whenever you turn on the equalizer or tone effect.

18 TEST TONE button
Press to output a test tone.

19 Cursor buttons (↑/↓/←/→)
After pressing the CURSOR MODE button or SET UP button on the receiver, use the cursor buttons to make specific settings. For details refer to the Operating Instructions supplied with your receiver.

To perform menu operations on the VCR, DVD player, or DBS tuner, do the procedure below. If you don't do this, the cursor buttons merely operate the receiver.

1 Press FUNCTION and move the easy scroll key to select the VCR, DVD player, or DBS tuner.

2 Open up the cover on the remote.
CURSOR TYPE list appears.
If the list has disappeared before you go on to Step 3, press any of the cursor buttons to restore the list.

3 Move the easy scroll key to select the component that you selected in Step 1, then press the key to enter the selection.

EXECUTE button
After pressing the MENU or GUIDE button, use the cursor buttons to select a menu item, then press the EXECUTE button to enter the selection.

EXIT/RETURN button
Press to return to the previous menu or exit the menu while VCR, DVD, or DBS menu or DBS guide is displayed on the TV screen.

20 CURSOR MODE button
Press repeatedly to select SURROUND, BASS/TREBLE (or EQ), or INDEX cursor mode. The indicator for the selected cursor mode on the receiver lights up.

21 D.TUNING ENTER button

If you have selected tuner:
Press to enter Direct Tuning mode. For details on Direct Tuning procedure, refer to the Operating Instructions supplied with your receiver.

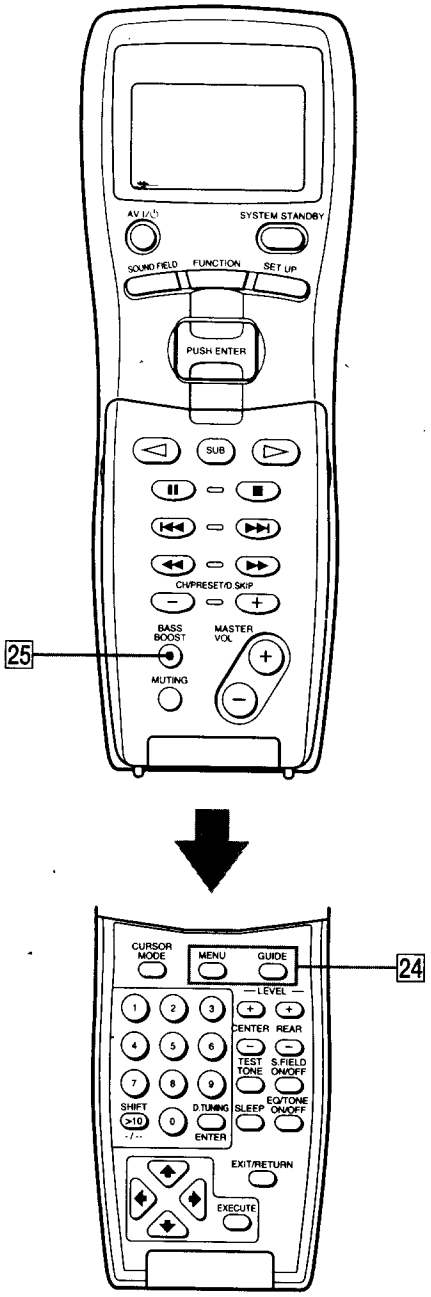
If you have selected VCR, DVD player, LD player, TV, DBS tuner, tape deck, MD deck, CD player, or DAT deck:
After selecting a channel, disc, or track using the numeric buttons, press this button to enter the selection. For details, refer to the Operating Instructions supplied with your receiver.

22 SHIFT >10 -/-- button

If you have selected tuner:
Press repeatedly to select a memory page for presetting radio stations or tuning to preset stations.

If you selected VCR, TV, LD player, video CD player, tape deck, MD deck, or CD player:
Press before inputting a channel, disc, or track number of eleven or higher. For details, refer to the operation manual supplied with the respective components.

23 Numeric buttons (1 to 0)
Inputs the correponding numeric value. On some components, pressing 0 selects 10. For details, refer to the operation manual supplied with the respective components.



24 MENU button

When you have selected the VCR, DVD player, or DBS tuner, press this buton to display VCR, DVD, or DBS menu on the TV screen. Then use the cursor buttons to perform the menu operations (see "19 Cursor buttons (↑/↓/←/→)," "EXECUTE button," and "EXIT/RETURN button" on page 7).

Note

When you have selected VCR, the remote is set to control the VCR that corresponds with VCR 1 after you press the MENU button. Before pressing the button, make sure to set the VCR input mode to VCR 1.

GUIDE button

Press to display the DBS guide. Then use the cursor buttons on the remote to perform the menu operations (see "17 Cursor buttons (↑/↓/←/→)," "EXECUTE button," and "EXIT/RETURN button" on page 7).

25 BASS BOOST button

Press to increase the bass of the front speakers. The BASS BOOST indicator on the receiver lights up when the function is turned on.

Note

- The display window will automatically turn off after a few seconds not in used.
- Press any button to turn on the display window.

Table of buttons used to control each component

When you program the remote to control the following Sony or non-Sony components, you can use the buttons on the remote that are marked with circles. Note, however, that some buttons may not operate your component.

Button \ Component	VCR (VHS, Beta, 8mm)	DBS tuner	DVD player	LD player	TV	Tuner	Video CD player	CD player	MD deck	DAT deck	Tape deck (A and B)
AV I/⏻	●	●	●	●	●		●	●	●		
SUB*	●	●	●	●	●	●	●	●	●	●	●
◁											●
▷	●		●	●			●	●	●	●	●
▮▮	●		●	●			●	●	●	●	●
■	●		●	●			●	●	●	●	●
⏮ / ⏭	●		●	●			●	●	●	●	●**
◀◀ / ▶▶	●		●	●			●	●	●	●	●
CH/PRESET/D.SKIP +/–	●	●	●		●	●	●	●	●		
Cursor buttons	●	●	●								
MENU	●	●	●								
GUIDE		●									
Numeric buttons	●	●	●	●	●	●	●	●	●	●	●
SHIFT >10 -/--	●			●	●	●	●	●	●		●
D.TUNING ENTER	●	●	●	●	●	●		●	●	●	●
EXIT/RETURN		●	●								
EXECUTE	●	●	●								

* *For information on the operations that become available when you press the button, see the table on page 10.*
***Deck B only.*

If you have assigned TV to the USER 1 or 2 item in the IR SET list (see page 15)

The remote is set to operate TVs only. In this case, only the following buttons are operable:

- CH/PRESET/D.SKIP +/– buttons
- MASTER VOL +/– buttons
- MUTING button
- Numeric buttons
- SHIFT >10 -/-- button
- D.TUNING ENTER button

Table of operations that appear when you press the SUB button

Press the SUB button to display a list of operations that the corresponding buttons are not found on the remote. The contents of the lists will vary according to the currently selected component. The following table shows the items in each list and the function of each item.

Component	Item(s)	Function
VCR	REC	Starts recording
	ANT TV / VTR	Selects the signal to be output from the antenna terminal of the VCR (TV signal or video signal)
	DISPLAY	Selects information displayed on the TV screen
	INPUT SEL.	Changes the input mode of the VCR
	SP / LP	Selects the playback speed
DBS tuner	JUMP	Toggles between the previous and current channels
	DISPLAY	Selects information displayed on the TV screen
	ANT TV / DBS	Selects the signal to be output from the antenna terminal of the VCR (TV signal or DBS signal)
	FAVORITE	Displays the Favorite Station Guides
	CATEGORY	Displays the Guide Category list
	INDEX	Displays the Station Index
DVD player	TITLE	Displays the Title menu. For details on the menu operation, see "To perform title and set up menu operations on the DVD player" on page 11.
	DISPLAY	Selects information displayed on the TV screen
	MENU	Displays the Set up menu. For details on the manu operation, see "To perform title and set up menu operations on the DVD player" on page 11.
	SUB-TITLE	Displays the Subtitles
	S.TITLE CHG	Changes the Subtitle Language
	AUDIO CHG	Changes the sounds
	SEARCH	Changes the search mode
	CLEAR	Returns to the Continuous Play etc.

Component	Item(s)	Function
LD player	SIDE A[a)]	Selects side A of the disc
	SIDE B[a)]	Selects the side B of the disc
	DISPLAY	Selects information displayed on the TV screen
	PROGRAM	Programs the tracks
	REPEAT	Repeats current track or programmed tracks
TV	JUMP	Toggles between the previous and current channels
	DISPLAY	Selects information displayed on the TV screen
	TV / VTR	Changes the input mode of the TV
	P IN P[b,c)]	Activates the picture-in picture function[c)]
	POSITION[b)]	Changes the position of the small picture[c)]
	SWAP[b)]	Swaps the small and large pictures[c)]
	WIDE[b,d)]	Selects the wide-picture mode[d)]
	SUB CH +[b)]	Selects preset channels for the small picture[c)]
	SUB CH –[b)]	
Tuner	FM / AM	Selects the FM or AM band
VIDEO CD player	TIME	Changes the time information
CD player	DISC	Selects a disc[e)]
	TRACK	Selects a track[e)]
	CONTINUE	Selects Continuous Play
	SHUFFLE	Selects Shuffle Play
	PROGRAM	Selects Program Play
	REPEAT	Selects Repeat Play

Component	Item(s)	Function
MD deck	CONTINUE	Selects Continuous Play
	SHUFFLE	Selects Shuffle Play
	PROGRAM	Selects Program Play
	REPEAT	Selects Repeat Play
	DISPLAY	Changes the information on the display
	EDIT/NO	Selects editing operation or cancels editing
	YES	Performs editing operation
	REC	Pauses for recording
DAT deck	REC	Pauses for recording
	REPEAT	Starts Repeat Play
	CLEAR	Erases a track in the program etc.
Tape deck	A-REC	Makes deck A pause for recording
	B-REC	Makes deck B pause for recording

a) "SIDE A/B" appears for non-Sony LD players.
b) These items will appear if you have assigned TV to the USER 1 (or 2) item in the IR SET list (see page 15) and selected USER 1 (or 2) (see page 13).
c) Only with Sony TVs with the picrure-in-picture function.
d) Only with Sony TVs that supports the wide-picture mode.
e) Only with the Sony CD changer.

Note

If you have programmed the remote to control non-Sony components, note the following:

— All the items may not appear when you select a component.
— All the items displayed may not function.

To perform title and set up menu operations on the DVD player

1 Select the DVD player from the function list.

2 Press SUB.

3 Move the easy scroll key to select "TITLE" (for the title menu) or "MENU" (for the set up menu), then press the key to enter the selection.

4 Open up the cover on the remote and move the easy scroll key to select "DVD" from the CURSOR TYPE list, then press the key to enter the selection.

5 Use the cursor buttons and the EXECUTE button to perform menu operations on the DVD player.

To exit the menu operation

1 Close the cover on the remote.

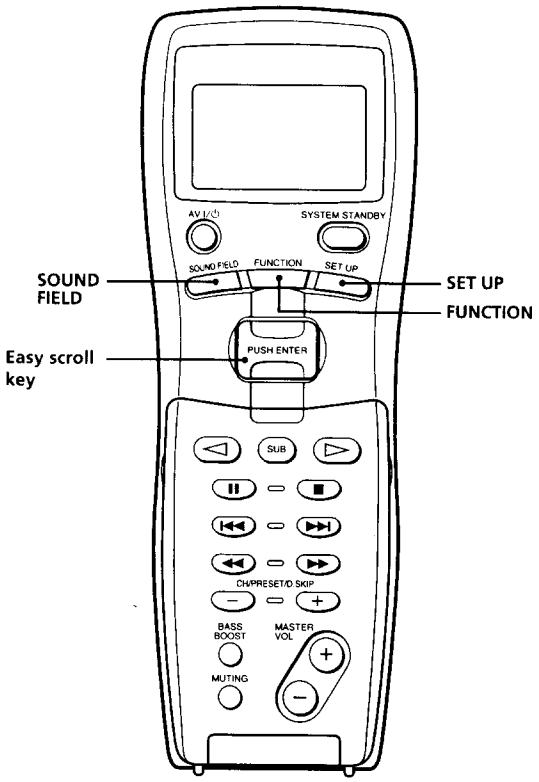
2 Press SUB.

3 Move the easy scroll key to select "TITLE" or "MENU," then press the key to enter the selection.

To display the DVD menu, use the MENU button. For details, see "24 MENU button" on page 8.

Using the Lists

This chapter describes how to display and use various lists. It also includes a chart showing all of the various lists.



Brief descriptions of buttons for list operations

SOUND FIELD button: Press to display the sound field list. Press again to revert back to the component information.

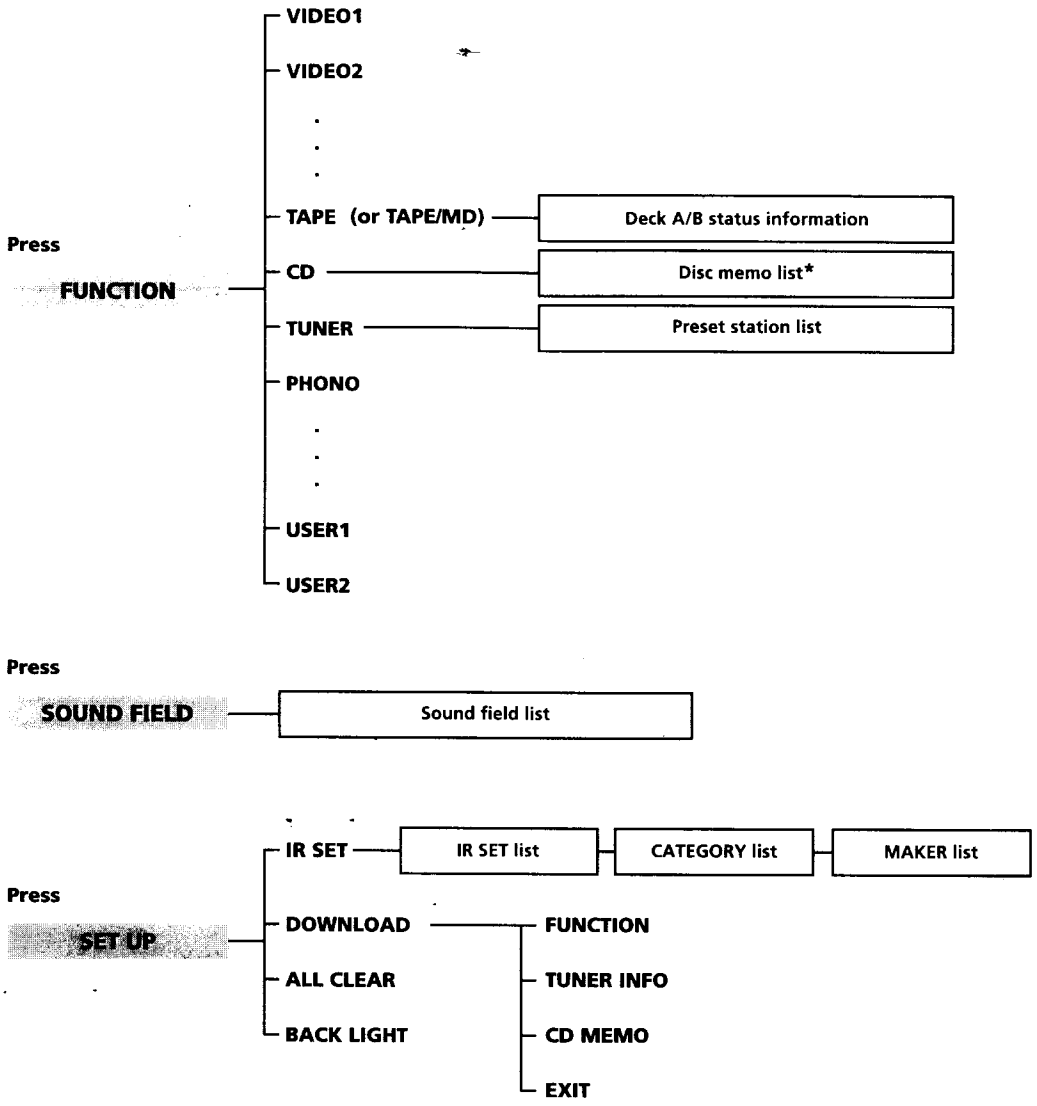
FUNCTION button: Press to display the function (component) list. Press again to revert back to the component information.

SET UP button: Press to display the set up list. Press again to revert back to the component information.

Easy scroll key: While displaying a list, move this key up or down to select an item from the list, then press the key to enter the selection.

Chart of Lists

See the treelike chart below for the list hierarchy. Details on how to access each list is given from page 14. Some items have sub-lists that appear when you press the SUB button (see pages 10 and 11).
The configuration of the lists will vary depending on the receiver.



* *Appears only when the receiver is connected to S-LINK CONTROL A1 compatible CD changer (5 discs, 50 discs, or 200 discs).*

Selecting a Component

Basic procedure for selecting a component

Do the procedure below to select a component from the function list. Note that the components contained in the list will vary depending on the receiver.

1 Press FUNCTION.
The function list appears. The items in the list correspond with the jacks on the receiver.

2 Move the easy scroll key to select a component from the list, then press the key to enter the selection.
Information about the component appears in the display window.

A display example

You can modify the components displayed
You can display the index name for the component. For details, see "Downloading Data From the Receiver" on page 16.

You can modify the category indication
The category indication tells you what component is actually connected to the jacks on the receiver. If a component is connected to jacks for which they are not originally meant, you can modify the category indication to match the component. For details, see "Programming the Remote" on page 15.

Depending on the component that you selected, you may have to do an additional procedure, or you may be able to obtain detailed information about the component by doing an additional procedure. For details, see "Additional procedure after selecting a component" on this page.

Additional procedures after selecting a component

If you have selected tuner

Do the procedure below after you have selected the tuner.

1 Move the easy scroll key.
The preset station list appears.

2 Move the easy scroll key to select the preset station, then press the key to enter the selection.
The current status of the component appears in the display window.

Note
If you have changed the contents of the preset station memory of the receiver, be sure to download the preset station memory from the receiver (see page 16) before you tune in to a preset station.

If you have selected CD player, tape deck, or MD deck

Detailed information about the component appears in the display window of the remote only if the component is compatible with S-LINK CONTROL A1.
The information that appears is as follows:

If you have selected	The following information appears
CD player	The first 12 characters of the disc memo, track number, and track text
MD deck	The first 12 characters of the disc name, track number, and track name
tape deck, CD player, or MD deck	The current deck operation (►, II or ■) to the right of the component indication

If you selected a Sony CD changer

1 Move the easy scroll key.
The DISC MEMO list appears.

2 Move the easy scroll key to select a disc, then press the key to enter the selection.

3 Start playback.

Note
If you have changed the discs in the changer, be sure to download the CD memos from the receiver (see page 16) or play the newly inserted disc(s) before you select a disc from the changer.

If you selected the tape deck

Move the easy scroll key to display the information about deck A or B.

Note
When the remote is programmed to control a non-Sony tape deck, the following may occur:
— The information about deck B is not displayed and you cannot switch between tape deck A and B.
— "TAPE A/B" is displayed and tape deck A and B switch automatically each time you press the easy scroll key, etc.

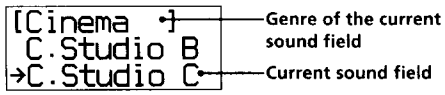
Selecting a Sound Field

Do the procedure below to select a sound field from the sound field list. Note that the sound fields contained in each list will vary depending on the receiver.

1 Press SOUND FIELD.
The sound field list appears.

2 Move the easy scroll key to select the sound field, then press the key to enter the selection.
The display reverts back to the component information after about ten seconds.

A display example



To turn off the sound field
Move the easy scroll key to select"S.Field OFF," then press the key to enter the selection. Or press the S.FIELD ON / OFF button.

Programming the Remote

You can customize the remote to match the components connected to your receiver. You can even program the remote to control non-Sony components and also Sony components that the remote is normally unable to control. The procedure below uses as an example a case in which a Kenwood LD player is connected to the VIDEO 2 jacks on the receiver.

Before you begin note that:
— You cannot change the settings of TUNER and PHONO.
— The remote can control only components that accept infrared wireless control signals.

Be sure to turn on the receiver and point the remote towards the receiver when performing the following procedure.

1 Press SET UP.
The set up list appears.

2 Move the easy scroll key to select "IR SET," then press the key to enter the selection.
The IR SET list appears.

3 Move the easy scroll key to select the component ("VIDEO 2," for example), then press the key to enter the selection.
The CATEGORY list appears.

4 Move the easy scroll key to select the category (i.e., the component that is actually connected to the corresponding jacks; in this case, "LD"), then press the key to enter the selection.
The MAKER list appears.

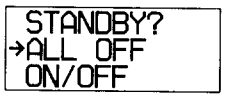
5 Move the easy scroll key to select the make of the component ("Kenwood," for example), then press the key to enter the selection.

When programming the remote to control Sony component
Select "Sony."

Programming is now completed.

To cancel programming
Move the easy scroll key to select "EXIT" from the IR SET list, or "CANCEL" from the CATEGORY list or MAKER list, then press the key to enter the selection.

You can change the function of the SYSTEM STANDBY switch
The SYSTEM STANDBY switch is factory set to turn off the receiver and other Sony audio/video components (i.e., "ALL OFF" setting) as described on page 5. To change the setting, move the easy scroll key to select "STANDBY" from the IR SET list in Step 3 on page 15, then select "ON/OFF" from the STANDBY list. The switch is now set to turn on or off the receiver only.



You can freely assign any component to USER 1 and 2 items in the IR SET list

1 Do Steps 1 and 2 in "Programming the Remote" on page 15.

2 Move the easy scroll key to select "USER 1" or "USER 2," then press the key to enter the selection.

3 Continue from Step 4 in "Programming the Remote" on page 15 to select the category and make of the component.

Downloading Data From the Receiver

The remote communicates with the receiver every time a button is pressed on the remote and displays the current operation status of the receiver on the display window. The remote can also download index names of the program sources, preset stations, CD memos*, and information indicating the presence or absence of a CD in each slot of a CD changer* from the receiver.

* *Appears only when you have selected a Sony CD changer (5 discs, 50 discs, or 200 discs) connected to the receiver using the S-LINK CONTROL A1 cable.*

Be sure to turn on the receiver and point the remote towards the receiver when performing the following procedure.

1 Press SET UP.
The set up list appears.

2 Move the easy scroll key to select "DOWNLOAD," then press the key to enter the selection.
The DOWNLOAD list appears.

3 To download index names
Move the easy scroll key to select "FUNCTION," then press the key to enter the selection.

To download preset stations
Move the easy scroll key to select "TUNER INFO," then press the key to enter the selection.

To download CD memos and information on the presence or absence of a CD in each slot of a CD changer

1 Move the easy scroll key to select "CD MEMO," then press the key to enter the selection.
The SORT menu appears in the display.

2 Move the easy scroll key to select "NUMBER" or "ALPHABET," then press the key to enter the selection.

The remote starts to download the data.

Shows the progress of downloading

To cancel the downloading process
Move the easy scroll key to select "EXIT" from the DOWNLOAD list, then press the key to enter the selection.

Notes
- If you have changed the discs in the CD changer, be sure to download the CD memos from the receiver or play the newly inserted disc(s) before you select a disc from the changer.
- You can download the data only from the Sony CD changer (5 discs, 50 discs, or 200 discs) connected to the receiver using the S-LINK CONTROL A1 cable.

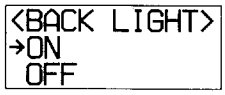
Other Operations

Turning the backlight on or off

Each time you press a button on the remote, the backlight turns on. If you do the procedure below to turn off the backlight, you can make the batteries last longer.

1 Press SET UP.
The set up list appears.

2 Move the easy scroll key to select "BACK LIGHT," then press the key to enter the selection.
The BACK LIGHT list appears .



3 Move the easy scroll key to select "ON" or "OFF," then press the key to enter the selection.

Clearing all the contents of remote's memory

Be sure to turn on the receiver and point the remote towards the receiver when performing the following procedure.

1 Press SET UP.
The set up list appears.

2 Move the easy scroll key to select "ALL CLEAR," then press the key to enter the selection.

3 Move the easy scroll key to select "YES," then press the key to enter the selection.
The contents of remote's memory (i.e., all programming and downloaded data) are cleared.

Additional Information

Troubleshooting

If you experience any of the following difficulties while using the remote, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.

The remote does not function.

- ➡ Point the remote at the remote sensor ■ on the receiver.
- ➡ Remove any obstacles in the path between the remote and the receiver.
- ➡ Replace all the batteries in the remote with new ones, if they are weak.
- ➡ Make sure you select the correct function on the remote.
- ➡ When you operate a programmed non-Sony component, the remote may not function properly depending on the model and the make of the component.

Component names that the receiver does not have corresponding jacks appear in the function list./The sound field list does not appear.

- ➡ The remote has been initialized. Turn on the receiver and press the SOUND FIELD, FUNCTION, or SUB button on the remote making sure that the remote points to the receiver (see page 3).

The SOUND FIELD button does not work.

- ➡ If the receiver has the 5.1(/DVD) INPUT jacks, the SOUND FIELD button becomes inoperable whenever you select the component connected to the jacks.

appears in the display window of the remote.

- ➡ The batteries are running out. Replace all the batteries with new ones.

The function names that appear in the display windows of the receiver and the remote are different.

- ➡ Select the correct function using the remote.

When the CD player, tape deck, or MD deck is connected to the receiver via S-LINK CONTROL A1 jacks, Auto Function does not work properly.

➡ Reprogram the remote (see pages 15 and 16).

"5.1(/DVD)" cannot be selected from the function list even though the receiver has the 5.1(/DVD) INPUT jacks.

➡ A communication error has occurred. Point the remote towards the receiver and select "5.1(/DVD)" from the function list again.

Specifications

General

Remote control system	Infrared control
Power requirements	4.5 V DC with three LR6 (size-AA) alkaline batteries
Dimensions	125 × 43 × 33 mm ($5 \times 1^{3}/_{4} \times 1^{15}/_{16}$ inches)
Mass (approx.)	130 g (4.5 oz) excluding batteries

Design and specifications are subject to change without notice.